Abstracts

Linearity Characterization of Connectorized Laser Diodes Under Microwave Intensity Modulation by AM/AM and AM/PM Measurements

W.I. Way and A. Afrashteh. "Linearity Characterization of Connectorized Laser Diodes Under Microwave Intensity Modulation by AM/AM and AM/PM Measurements." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 659-662.

Measurements and analysis of the AM/AM and AM/PM characteristics of microwave intensity modulated GaAIAs laser diodes with multimode pigtails and biconic connectors have been carried out. In general, AM/AM is the main nonlinearity distortion for a connectorized laser diode. However, AM/PM distortion may become comparable with or dominant over AM/AM distortion when the modulation frequency is close to the resonance region of the laser diode.

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